[Icon

Description automatically generated](mailto:siddhantd28@gmail.com?subject=Hello%20Siddhant!)**[Logo

Description automatically generated](https://www.linkedin.com/in/scd/)**[Shape

Description automatically generated with low confidence](https://github.com/siddhantd28)**SIDDHANT DESHMUKH­**

San Jose, California | [siddhantd28@gmail.com](mailto:siddhantd28@gmail.com) | 415-630-0891 *“Passion for creating products and platforms from scratch and scaling them to handle extremely high volumes of data*”

**Education**

**Master of Science in Computer Science Aug 2015-Dec 2016** University of Florida, Gainesville, Florida, USA  **4.0/4.0 GPA**

**Experience**

**AMAZON WEB SERVICES (AWS) - Senior Software Engineer (L6) - OpenSearch - Palo Alto, California Sept 2022-Present**

* Maintaining and enhancing AWS OpenSearch (Elasticsearch) Service with global scale
* Leading multi-team observability project **Query Insights** to improve search visibility and performance
* Lead the In-place update effort to update customer domains without B/G upgrade and deployed globally

**VMWARE - Senior Member of Technical Staff - Platform Team - Palo Alto, California Aug 2019-Sept 2022**

* Owned services that ingest **10 million eps** and distribute **25 million eps** spanning multiple continents
* Owned and maintained **30+ services** as part of the [Uhana](https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vmw-uhana-datasheet.pdf) Data ingestion and distribution engine
* Designed and implemented the TCP Distributor services spanning multiple continents. [Patent](https://patents.google.com/patent/US11665094B2/en?q=(siddhant)&inventor=deshmukh&assignee=vmware&oq=siddhant+deshmukh+vmware)
* Created the [CRIC platform](https://telco.vmware.com/products/ric.html) from scratch and involved in multiple **massive customer trials**
* Instrumental in moving the [Uhana](https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vmw-uhana-datasheet.pdf) platform from Mesos/Marathon to **Kubernetes/Helm**
* **Setup logging framework** using ELK and Filebeat for the Uhana platform spanning multiple continents
* Designed and implemented **zero downtime upgrade** and **high availability** for Uhana ingestion platform

**UHANA (Acquired by VMWARE) - Senior Software Engineer - Palo Alto, California Aug 2019**

**INFORMATICA - Software Engineer - Cloud Platform Team - Redwood City, California Feb 2017-Jul 2019**

* Enhanced the [Informatica Cloud Platform](https://www.informatica.com/products/cloud-integration.html#fbid=SIPQ4DvQI3j) by creating and enhancing micro-services
* Owner of V3API (Informatica Cloud latest [public APIs](https://docs.informatica.com/integration-cloud/cloud-platform/current-version/rest-api-reference/informatica-intelligent-cloud-services-rest-api.html)) and PC2Cloud (migrate customers to cloud)

**INFORMATICA - Software Development Intern - Cloud Platform Team - Redwood City, California May-Aug 2016**

* Enhanced Informatica Cloud API by adding features such as partial update of resources (Java, MySQL)

**Skills**

**Programming - Java**, **Python**, GoLang, JavaScript, C++, Scala, R, NodeJS, Angular, Express, Ruby, HTML, CSS, Rust

**Database - Cassandra**, **Oracle SQL**, **MySQL**, **Elasticsearch**, MongoDB, Postgresql, Redis, Opensearch, DynamoDB

**Tools & Frameworks** – **Kubernetes**, **Docker**, **Bazel**, **Spring**, **REST APIs**, **Git**, **Kafka**, **Aws, Flink,** HDFS, Hadoop, Spark, Storm, Hive,

Jenkins, Marathon, Mesos, Network Security, Protobuf, Prometheus, Grafana, HAProxy

**Projects**

**UHANA PLATFORM** - AI-based analytics platform to improve customer experience on 4g & 5g networks **Aug 2019-Present**

* Ingest data at 10 million eps and distribute at 25 million eps (Java, Python, Kafka, Cassandra)

**CRIC PLATFORM -** Data pipeline for network operations data processing, storage and distribution **Aug 2019-Present**

* Currently creating the [CRIC platform](https://telco.vmware.com/products/ric.html) from scratch (Java, GoLang, Kafka, Cassandra)

**TCP DISTRIBUTOR -** Critical services to distribute large scale network telemetry data to multiple clients **Aug 2019-Present**

* Filter, Process and distribute data from cell towers to multiple clients in real-time at 25 million eps

**ELK LOGGING FRAMEWORK –** Setup logging framework for Uhana Platform on multiple continents **Aug 2019-Present**

* Used Elasticsearch, Filebeat, Logstash and Kibana to setup logging spanning multiple continents

**PC2CLOUD SERVICE –** Critical service to convert customer on-premisemetadata to cloud **Feb 2017-Aug 2019**

* As service owner, handled all aspects such as production, customer and deployment related issues

**V3-API SERVICE -** [Informatica public APIs](https://docs.informatica.com/integration-cloud/cloud-platform/current-version/rest-api-reference/informatica-intelligent-cloud-services-rest-api.html) accessible to customers **Feb 2017-Present**

* As service owner, played a part in designing and developing latest Informatica public APIs (Java)

**AKAMAI CDN WITH FALLBACK -** Integrated the Informatica Cloud UI with Akamai CDN **Jan-May 2018**

* Enhanced Informatica UI to use CDN for static resources and fallback to local on failure (JavaScript)

**Research**

**MOBILE MONEY MONITORING MACHINE -** Research Project in Network Security Lab **Aug-Dec 2016**

* Automate security analysis for mobile money applications (Android, Python, MongoDB)

**RESEARCH PAPER -** Efficient and Secure Template Blinding for Biometric Authentication  **Jan-Aug 2016**

* Developed blinding protocols that provide template protection to database. [IEEE CNS Research Paper](https://ieeexplore.ieee.org/abstract/document/7860539)